

FCCAnalyses: FCC-ee Simulation (Delphes)

$\sqrt{s} = 240.0 \text{ GeV}$

$L = 10.8 \text{ ab}^{-1}$

$e^+e^- \rightarrow ZH \rightarrow \mu^+\mu^- + \text{Invisible}$

sel_BNL1 + Missing $pT > 15$

Signal scale=1.0

- [Light Blue] $Z(v\bar{v})H(ZZ \rightarrow \mu^+\mu^-\nu\bar{\nu})$
- [Olive Green] $Z(v\bar{v})H(WW \rightarrow \mu^+\nu\bar{\nu}\mu^-\bar{\nu})$
- [Dark Blue] W^+W^-
- [Dark Green] ZZ
- [Cyan] $Z/\gamma \rightarrow \mu^+\mu^-$
- [Magenta] $Z/\gamma \rightarrow \tau^+\tau^-$
- [Yellow] Rare
- [Red] $Z(\mu^-\mu^+)H(4\nu)$

| Process | Yields | Raw MC |
|--|--------|---------|
| $Z(\mu^-\mu^+)H(4\nu)$ | 104 | 1353702 |
| $Z(v\bar{v})H(ZZ \rightarrow \mu^+\mu^-\nu\bar{\nu})$ | 44 | 500268 |
| $Z(v\bar{v})H(WW \rightarrow \mu^+\nu\bar{\nu}\mu^-\bar{\nu})$ | 1 | 958 |
| W^+W^- | 227154 | 477728 |
| ZZ | 227250 | 869576 |
| $Z/\gamma \rightarrow \mu^+\mu^-$ | 0 | 0 |
| $Z/\gamma \rightarrow \tau^+\tau^-$ | 42985 | 44678 |
| Rare | 18484 | 102726 |